



# Cancer Research

The Official Organ of the American Association for Cancer Research, Inc.

Volume 36 / Number 8 / August 1976

## Contents

*Asterisks preceding page numbers refer to human studies.*

- \*2707** Differential Inhibition of Embryonic Cell Aggregation by Cultured Human Cells with "Malignant" or "Normal" Characteristics. **David E. Maslow, Eric Mayhew, and Jun Minowada.**
- \*2710** Effect of Vincristine on Sister Chromatid Exchanges of Normal Human Lymphocytes. **Claude Stoll, Digamber S. Borgaonkar, and Jean-Marc Levy.**
- 2714** The Effect of *Corynebacterium parvum* in Combination with 5-Fluorouracil, L-Phenylalanine Mustard, or Methotrexate on the Inhibition of Tumor Growth. **Bernard Fisher, Herbert Rubin, Elizabeth Saffer, and Norman Wolmark.**
- 2720** Antitumor Activity of *N*-(Phosphonacetyl)-L-aspartic Acid, a Transition-State Inhibitor of Aspartate Transcarbamylase. **Randall K. Johnson, Toshio Inouye, Abraham Goldin, and George R. Stark.**
- 2726** Antitumor Activities of Newly Synthesized *N*<sup>1</sup>-Acyl-1- $\beta$ -D-arabinofuranosylcytosine. **Michiko Aoshima, Shigeru Tsukagoshi, Yoshio Sakurai, Jun-ichi Ohishi, Torao Ishida, and Hidehiko Kobayashi.**
- 2733** Effects of Tumor-like Assay Conditions, Ionizing Radiation, and Hyperthermia on Immune Lysis of Tumor Cells by Cytotoxic T-Lymphocytes. **John W. Harris.**
- 2740** Mammary Neoplasia in a Closed Beagle Colony. **Glenn N. Taylor, Lorraine Shabestari, Jerry Williams, Charles W. Mays, Walter Angus, and Susan McFarland.**
- 2744** Flow Microfluorimetric Analysis of Sensitive and Resistant Leukemia L1210 following 1- $\beta$ -D-Arabinofuranosylcytosine *in Vivo*. **Oliver Alabaster and Bill Bunnag.**
- 2750** Determination of Carbocyanine Dye-binding Poly-anions in Malignant and Nonmalignant Disease States. **Esko J. Salo, Stig A. Rosengård, Reijo E. Salmi, Björn O. Sandbacka, and Hannu J. Huhtala.**
- \*2754** Decreased Ability of Blood Leukocytes from Patients with Tumors of the Urinary Bladder to Act as Stimulator Cells in Mixed Leukocyte Culture. **Harry W. Herr, Michael A. Bean, and Willet F. Whitmore, Jr.**
- 2761** Lipid Hydroperoxide Activation of *N*-Hydroxy-*N*-acetylaminofluorene via a Free Radical Route. **Robert A. Floyd, Lailing M. Soong, Robert N. Walker, and Melissa Stuart.**
- 2768** Synthesis and the Lethality of Bleomycin in Bacteria. **Seymour S. Cohen and Josephine I.**
- 2775** Folate Deficiency in the Livers of Diethylnitrosamine-treated Rats. **Yoon Sook Shin Buehring, Lionel A. Poirier, and E. L. R. Stokstad.**
- \*2780** Elaboration of Pyrimidine-specific Nucleosidases by Human Lymphoblastoid Cells of Established Cultures. **John L. Pauly.**
- 2785** The Effect of Phenobarbital on Cyclophosphamide Antitumor Activity. **David S. Alberts and Theodoor van Daalen Wetters.**
- 2790** The Effect of Allopurinol on Cyclophosphamide Antitumor Activity. **David S. Alberts and Theodoor van Daalen Wetters.**
- 2795** Histological Comparison of the Growth of Rat Bladder Carcinoma R-4909 Observed for Two Years *in Vitro* and *in Vivo*. **Keiji Toyoshima, Nabil Abaza, and Joseph Leighton.**
- 2800** Conditions of Cultivation Required for the Formation of Hemicysts *in Vitro* by Rat Bladder Carcinoma R-4909. **Keiji Toyoshima, John D. Valentich, Ruy Tchao, and Joseph Leighton.**
- 2807** Prolonged Tumor Dormancy by Prevention of Neovascularization in the Vitreous. **Steven Brem, Henry Brem, Judah Folkman, Daniel Finkelstein, and Arnall Patz.**
- 2813** Junctional and Compound Pigmented Nevi Induced by 9,10-Dimethyl-1,2-benzanthracene in Skin of

- Albino Guinea Pigs. **Andrew Pawlowski, Herbert F. Haberman, and I. Aravindakshan Menon.**
- \*2822 The Sensitivities of Human and Murine Hemopoietic Cells Exposed to Cytotoxic Drugs in an *in Vivo* Culture System. **M. Y. Gordon and N. M. Blackett.**
- 2827 Effects of 5-(3,3-Dimethyl-1-triazeno)imidazole-4-carboxamide and Its Metabolites on Novikoff Hepatoma Cells. **Diane D. Beal, Joseph L. Skibba, Kristine K. Whitnabe, and George T. Bryan.**
- \*2832 Spontaneous Extracellular Synthesis of DNA Released by Human Blood Lymphocytes. **Philippe Anker, Maurice Stroun, and Pierre A. Maurice.**
- 2840 Autogenous Immunity to Mouse Mammary Tumor Virus in Mouse Strains of High and Low Mammary Tumor Incidence. **James N. Ihle, Larry O. Arthur, and Donald L. Fine.**
- 2845 A Galactosidase Immunosorbent Test for Carcinoembryonic Antigen. **A. Raymond Frackelton, Jr., Robert P. Szaro, and Joel K. Weltman.**
- 2850 Application of a Galactosidase Immunosorbent Test to Carcinoembryonic Antigen in Plasma. **Joel K. Weltman and A. Raymond Frackelton, Jr.**
- 2854 Role of Immune Mechanisms in Metastatic Patterns of Hemopoietic Tumors in Rats. **Harry L. Ioachim, Antonia Pearse, and Steven E. Keller.**
- 2863 *In Vitro* Correlates of Transformation in C3H/10T<sup>1/2</sup> Clone 8 Mouse Cells. **Peter A. Jones, Walter E. Laug, Anne Gardner, Carol A. Nye, Louis M. Fink, and William F. Benedict.**
- 2868 Preferential Localization and Rate of Loss of Labeled Alloantibody from Rat Tumors and Skin Transplants Carrying the Corresponding Alloantigen. **Mary J. Izzo and William F. Bale.**
- 2874 Colon Carcinogenesis in Germ-free Rats with Intrarectal 1,2-Dimethylhydrazine and Subcutaneous Azoxymethane. **Bandaru S. Reddy, Tomio Narisawa, and John H. Weisburger.**
- 2877 *N*-Nitroso-bis(2-acetoxypropyl)amine as a Further Pancreatic Carcinogen in Syrian Golden Hamsters. **Parviz Pour, Jürgen Althoff, Ralph Gingell, Robert Kupper, Friedrich Krüger, and Ulrich Mohr.**
- 2885 A Phenylalanine Transfer RNA Azo Dye Complex in Livers of Rats Fed Diets Containing 3'-Methyl-4-dimethylaminoazobenzene. **Abdulwahid H. Daoud and A. Clark Griffin.**
- 2891 Effect of Adriamycin on DNA, RNA, and Protein Synthesis in Cell-free Systems and Intact Cells. **Richard L. Momparler, Myron Karon, Stuart E. Siegel, and Felicidad Avila.**
- 2896 Separation and Characterization of Transcriptionally Active and Inactive Nuclear Subfractions of AKR Mouse Embryo Cells. **Robert A. Webster, Harold L. Moses, and Thomas C. Spelsberg.**
- 2905 Binding of Polycyclic Aromatic Hydrocarbons to Transcriptionally Active Nuclear Subfractions of AKR Mouse Embryo Cells. **Harold L. Moses, Robert A. Webster, Ginger D. Martin, and Thomas C. Spelsberg.**
- 2911 Differential Transglutaminase Distribution in Normal Rat Liver and Rat Hepatoma. **Paul J. Birckbichler, Gerald R. Orr, and Manford K. Patterson, Jr.**
- \*2915 Human Cell-mediated Cytotoxicity Estimated by Lymphocyte Titration. **Thomas R. Hakala, Paul H. Lange, and Elwin E. Fraley.**
- 2923 Antitumor and Immunosuppressive Effects of Mycophenolic Acid Derivatives. **Yoshiyuki Ohsugi, Seikichi Suzuki, and Yoshio Takagaki.**
- 2928 Proliferative Epithelial Lesions of the Urinary Bladder in Cynomolgus Monkeys (*Macaca fascicularis*) Infected with *Schistosoma intercalatum*. **Allen W. Cheever, Robert E. Kuntz, Jerry A. Moore, and T. C. Huang.**
- \*2932 Changes in Transfer RNA's in Human Malignant Trophoblastic Cells (BeWo Line). **Yoshiyuki Kuchino and Ernest Borek.**
- 2937 Characteristics of Cell Membranes from Somatic Cell Hybrids between Rat Hepatoma and Mouse L-Cells. **Dante J. Marciari, Linda B. Lyons, and E. Brad Thompson.**
- \*2945 Reduction of Ifosfamide Toxicity Using Dose Fractionation. **Victorio Rodriguez, Gerald P. Bodey, Emil J. Freireich, Kenneth B. McCredie, Eugene M. McKelvey, and Charles K. Tashima.**
- 2949 The Effect of Entrapment in Liposomes on the *in Vivo* Distribution of [<sup>3</sup>H]Methotrexate in a Primate. **Harold K. Kimelberg, Thomas F. Tracy, Jr., Sandra M. Biddlecome, and Robert S. Bourke.**
- 2958 Delayed and Progressive Myocardial Lesions after Adriamycin Administration in the Rabbit. **Roger S. Jaenke.**
- 2967 Books Received.
- 2969 Special Announcement.
- 2970 Announcement from the Editor.
- 2971 Announcements.
- 2972 Erratum.

# Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

**36 (8)**

*Cancer Res* 1976;36:2707-2972.

**Updated version** Access the most recent version of this article at:  
<http://cancerres.aacrjournals.org/content/36/8.citation>

**E-mail alerts** [Sign up to receive free email-alerts](#) related to this article or journal.

**Reprints and Subscriptions** To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at [pubs@aacr.org](mailto:pubs@aacr.org).

**Permissions** To request permission to re-use all or part of this article, use this link <http://cancerres.aacrjournals.org/content/36/8.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.